

## PARALLEL DRIVING MECHANISM FOR OPTICAL CHASSIS

ABSTRACT

A parallel driving mechanism for an optical chassis in a scanner includes a  
5 casing, an optical chassis, a linkage member, a screw bar and a driving  
member. The casing has two parallel guide rails. The optical chassis has two  
rollers at two ends movably resting on the guide rails and two pivotal joints.  
The linkage member has two symmetrical upper links pivotally engaging  
10 with two symmetrical lower links on two sleeves which have opposite  
internal screw threads formed therein. The driving member may rotate the  
screw bar which moves the sleeves to move toward or against each other so  
that the upper and lower links may be extended or withdrawn to move the  
optical chassis moving reciprocally on the guide rails to perform scanning  
operation.

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